

Claims:

1. Conveying device for conveying workpieces through processing stations of shaping machines, such as transfer presses or press lines, having a conveying device (9) that conveys at least one workpiece (27) in a multi-axis conveying movement and that is attached above the plane of the workpiece conveyance between said processing stations, whereby said conveying device (9) removes said workpiece (27) from a processing station and conveys [it] to the subsequent processing station, without an intermediate station, in a lift movement, a horizontal pivot movement that occurs about a vertical axis, and where necessary in a horizontal movement, and said conveying device (9) is embodied as at least one articulated arm (21) having a first articulation component (22) and a second articulation component (23), characterized in that said articulated arm (21) is pivotably borne on a carriage (20) that carries a pivot drive (31) and that is guided on a crossmember (18) on which is disposed at least one drive (29) that is fixed relative to said carriage (20) and is for horizontal movement of said carriage (20) and the entire unit can travel vertically via at least one fixed lift drive (14).
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2. Conveying device in accordance with claim 1, characterized in that two articulated arms (21) are arranged in a mirror image to one another and are driven in opposition to one another by pivot drives (31) and are embodied as dual articulated arm feeders.
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3. Conveying device in accordance with claim 1, characterized in that a transverse crossmember (25) is pivotable about the axis (40) via a drive (37), a toothed wheel (38), and a toothed segment (39).

4. Conveying device in accordance with claim 1, characterized in that said

5 transverse crossmember (25) is rotatable about an axis (41) by a drive (35).

5. Conveying device in accordance with claim 1, characterized in that said workpiece holding means (26) can be caused to travel transverse to the workpiece conveying direction (11) by a drive (36).